[containing a human sequence encoding insulin-like growth factor (hIGF)] comprising a nucleic acid sequence substantially free of nucleic acid molecules not [containing] comprising said [hIGF] nucleic acid sequence, wherein said [hIGF] nucleic acid sequence is selected from the group consisting of:

(a) 5'-GGA CCG GAG ACG CUC UGC GGG GCU GAG CUG GUG GAU GCU CUU CAG UUC GUG UGU GGA GAC AGG GGC UUU UAU UUC AAC AAG CCC ACA GGG UAU GGC UCC AGC AGU CGG AGG GCG CCU CAG ACA GGU AUC GUG GAU GAG UGC UGC UUC CGG AGC UGU GAU CUA AGG AGG CUG GAG AUG UAU UGC GCA CCC CUC AAG CCU GCC AAG UCA GCU-3', wherein U can also be T;

(b) 5'-GCU UAC CGC CCC AGU GAG ACC CUG UGC GGC GGG GAG CUG GUG GAC ACC CUC CAG UUC GUC UGU GGG GAC CGC GGC UUC UAC UUC AGC AGG CCC GCA AGC CGU GUG AGC CGU CGC AGC CGU GGC AUC GUU GAG GAG UGC UGU UUC CGC AGC UGU GAC CUG GCC CUC CUG GAG ACG UAC UGU GCU ACC CCC GCC AAG UCC GAG-3', wherein U can also be T;

(c) a nucleic acid sequence[s] complementary to (a) or (b); and

(d) a fragment[s] of (a), (b) or (c) that [are] is at least 18 bases in length [and which will selectively hybridize to human genomic DNA encoding hIGF].

2. (Twice amended) A composition according to claim 1 wherein said [hIGF is hIGF-I and said hIGF] nucleic acid sequence is sequence (a).

3. (Twice amended) A composition according to claim 1 wherein said [hIGF is hIGF-I and said hIGF] nucleic acid sequence is sequence (b).

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6. (Twice amended) A composition according to claim 1 wherein said nucleic acid molecules are DNA, and U is T.

7. (Twice amended) A composition according to claim 1 wherein said nucleic acid molecules are RNA, and U is U.

8. (Twice amended) A composition comprising cellular hosts transformed by a heterologous DNA sequence substantially free of cellular hosts that do not contain said heterologous DNA sequence, wherein said heterologous DNA sequence [is a human sequence encoding insulin-like growth factor (hIGF)] comprises a nucleic acid sequence selected from the group consisting of:

(a) 5'-GGA CCG GAG ACG CTC TGC GGG GCT GAG CTG GTG GAT GCT CTT CAG TTC GTG TGT GGA GAC AGG GGC TTT TAT TTC AAC AAG CCC ACA GGG TAT GGC TCC AGC AGT CGG AGG GCG CCT CAG ACA GGT ATC GTG GAT GAG TGC TGC TTC CGG AGC TGT GAT CTA AGG AGG CTG GAG ATG TAT TGC GCA CCC CTC AAG CCT GCC AAG TCA GCT-3';

(b) 5'-GCT TAC CGC CCC AGT GAG ACC CTG TGC GGC GGG GAG CTG GTG GAC ACC CTC CAG TTC GTC TGT GGG GAC CGC GGC TTC TAC TTC AGC AGG

CCC GCA AGC CGT GTG AGC CGT CGC AGC CGT GGC ATC GTT GAG GAG TGC TGT TTC CGC AGC TGT GAC CTG GCC CTC CTG GAG ACG TAC TGT GCT ACC CCC GCC AAG TCC GAG-3';

(c) a nucleic acid sequence[s] complementary to (a) or (b); and

(d) a fragment[s] of (a), (b) or (c) that [are] is at least 18 bases in length [and which will selectively hybridize to human genomic DNA encoding hIGF].

9. (Twice amended) A composition according to claim 8 wherein said [heterologous DNA] nucleic acid sequence is selected from the group consisting of sequences (a), (b) and (c).

10. (Twice amended) A composition according to claim 9 wherein said [hIGF is hIGF-I and said heterologous DNA] nucleic acid sequence is sequence (a).

11. (Twice amended) A composition according to claim 9 wherein said [hIGF is hIGF-II and said heterologous DNA] nucleic acid sequence is sequence (b).

12. (Amended) A composition according to claim 10 wherein said [heterologous DNA] nucleic acid sequence comprises the following sequence:

5'-CTG GCG CTG TGC CTG CTC ACC TTC ACC AGC TCT GCC ACG GCT GGA CCG GAG ACG CTC TGC GGG GCT GAG CTG GTG GAT GCT CTT CAG TTC GTG TGT GGA

GAC AGG GGC TTT TAT TTC AAC AAG CCC ACA GGG TAT GGC TCC AGC AGT CGG AGG GCG CCT CAG ACA GGT ATC GTG GAT GAG TGC TGC TTC CGG AGC TGT GAT CTA AGG AGG CTG GAG ATG TAT TGC GCA CCC CTC AAG CCT GCC AAG TCA GCT CGC TCT GTC CGT GCC CAG CGC CAC ACC GAC ATG CCC AAG ACC CAG AAG GAA GTA CAT TTG AAG AAC GCA AGT AGA GGG AGT GCA GGA AAC AAG AAC TAC AGG ATG-3'.

13. (Amended) A composition according to claim 11 wherein said [heterologous DNA] nucleic acid sequence comprises the following sequence:

5'-ATG GGA ATC CCA ATG GGG AAG TCG ATG CTG GTG CTT CTC ACC TTC TTG GCC TTC GCC TCG TGC TGC ATT GCT GCT TAC CGC CCC AGT GAG ACC CTG TGC GGC GGG GAG CTG GTG GAC ACC CTC CAG TTC GTC TGT GGG GAC CGC GGC TTC TAC TTC AGC AGG CCC GCA AGC CGT GTG AGC CGT CGC AGC CGT GGC ATC GTT GAG GAG TGC TGT TTC CGC AGC TGT GAC CTG GCC CTC CTG GAG ACG TAC TGT GCT ACC CCC GCC AAG TCC GAG AGG GAC GTG TCG ACC CCT CCG ACC GTG CTT CCG GAC AAC TTC CCC AGA TAC CCC GTG GGC AAG TTC TTC CAA TAT GAC ACC TGG AAG CAG TCC ACC CAG CGC CTG CGC AGG GGC CTG CCT GCC CTC CTG CGT GCC CGC CGG GGT CAC GTG CTC GCC AAG GAG CTC GAG GCG TTC AGG GAG GCC AAA CGT CAC CGT CCC CTG ATT GCT CTA CCC ACC CAA GAC CCC GCC CAC GGG GGC GCC CCC CCA GAG ATG GCC AGC AAT CGG AAG TGA-3'.

14. (Amended) A composition according to claim 9 wherein said [heterologous DNA] nucleic acid sequence is located on a plasmid that replicates in said cellular host.

18.(Twice amended) A composition consisting essentially of nucleic acid molecules [containing a human sequence encoding insulin-like growth factor (hIGF)] comprising a nucleic acid sequence selected from the group consisting of:

(a) 5'-GGA CCG GAG ACG CUC UGC GGG GCU GAG CUG GUG GAU GCU CUU CAG UUC GUG UGU GGA GAC AGG GGC UUU UAU UUC AAC AAG CCC ACA GGG UAU GGC UCC AGC AGU CGG AGG GCG CCU CAG ACA GGU AUC GUG GAU GAG UGC UGC UUC CGG AGC UGU GAU CUA AGG AGG CUG GAG AUG UAU UGC GCA CCC CUC AAG CCU GCC AAG UCA GCU-3', wherein U can also be T;

(b) 5'-GCU UAC CGC CCC AGU GAG ACC CUG UGC GGC GGG GAG CUG GUG GAC ACC CUC CAG UUC GUC UGU GGG GAC CGC GGC UUC UAC UUC AGC AGG CCC GCA AGC CGU GUG AGC CGU CGC AGC CGU GGC AUC GUU GAG GAG UGC UGU UUC CGC AGC UGU GAC CUG GCC CUC CUG GAG ACG UAC UGU GCU ACC CCC GCC AAG UCC GAG-3', wherein U can also be T;

(c) a nucleic acid sequence[s] complementary to (a) or (b); and

(d) a fragment[s] of (a), (b) or (c) that [are] is at least 18 bases in length [and which will selectively hybridize to human genomic DNA encoding hIGF]. - -

Cancel previously-submitted claims 23-28 and 31-35 and replace them with twice-amended claims 23-28 and 31-35, and add additional claims 42 - 48 as follows:

- - 23. A method of producing a polypeptide comprising an amino acid sequence of Fig. 1 or Fig. 2 in a suitable host cell transformed with a polynucleotide encoding said polypeptide, wherein said polynucleotide comprises a nucleic acid sequence encoding said amino acid sequence selected from the group consisting of the nucleic acid sequences (a) and (b) of claim 1.

24 . A method of producing a polypeptide comprising an amino acid sequence of Fig. 1 or Fig. 2, which method comprises introducing into a suitable host cell a nucleic acid molecule comprising a polynucleotide encoding said polypeptide, wherein said polynucleotide comprises a nucleic acid sequence encoding said amino acid sequence selected from the group consisting of the nucleic acid sequences (a) and (b) of claim 1.

25. The method of claim 23 wherein said amino acid sequence is IGF-I and said nucleic acid sequence is sequence (a).

26. The method of claim 23 wherein said amino acid sequence is IGF-II and said nucleic acid sequence is sequence (b).

27 . A method of producing a polypeptide comprising the amino acid sequence of Fig. 1 in a suitable host cell transformed with a polynucleotide encoding said polypeptide, wherein said polynucleotide comprises the nucleic acid sequence of claim 4, which method comprises expressing said polynucleotide in said host cell.

28. A method of producing a polypeptide comprising the amino acid sequence of Fig. 2 in a suitable host cell transformed with a polynucleotide encoding said polypeptide, wherein said polynucleotide comprises the nucleic acid sequence of claim 5, which method comprises expressing said polynucleotide in said host cell.

31. A method of producing a polypeptide comprising an amino acid sequence of Fig. 1 or Fig. 2 which comprises expressing the nucleic acid sequence in the transformed host cells of a composition of claim 8 wherein said nucleic acid sequence is selected from the group consisting of the nucleic acid sequences (a) and (b).

32. A method of producing a polypeptide according to claim 31 wherein said amino acid sequence is IGF-I and said nucleic acid sequence is sequence (a).

33. A method of producing a polypeptide according to claim 31 wherein said amino acid sequence is IGF-II and said nucleic acid sequence is sequence (b).

34. A method of producing a polypeptide according to claim 31, wherein said amino acid sequence is the amino acid sequence of Fig. 1 and the nucleic acid sequence is:

5'-CTG GCG CTG TGC CTG CTC ACC TTC ACC AGC TCT GCC ACG GCT GGA CCG GAG ACG CTC TGC GGG GCT GAG CTG GTG GAT GCT CTT CAG TTC GTG TGT GGA GAC AGG GGC TTT TAT TTC AAC AAG CCC ACA GGG TAT GGC TCC AGC AGT CGG AGG GCG CCT CAG ACA GGT ATC GTG GAT GAG TGC TGC TTC CGG AGC TGT GAT CTA AGG AGG CTG GAG ATG TAT TGC GCA CCC CTC AAG CCT GCC AAG TCA GCT CGC TCT GTC CGT GCC CAG CGC CAC ACC GAC ATG CCC AAG ACC CAG AAG GAA GTA CAT TTG AAG AAC GCA AGT AGA GGG AGT GCA GGA AAC AAG AAC TAC AGG ATG-3'.

35. A method of producing a polypeptide according to claim 31, wherein said amino acid sequence is the amino acid sequence of Fig. 2 and the nucleic acid sequence is:

5'-ATG GGA ATC CCA ATG GGG AAG TCG ATG CTG GTG CTT CTC ACC TTC TTG GCC TTC GCC TCG TGC TGC ATT GCT GCT TAC CGC CCC AGT GAG ACC CTG TGC GGC GGG GAG CTG GTG GAC ACC CTC CAG TTC GTC TGT GGG GAC CGC GGC TTC TAC TTC AGC AGG CCC GCA AGC CGT GTG AGC CGT CGC AGC CGT GGC ATC GTT GAG GAG TGC TGT TTC CGC AGC TGT GAC CTG GCC CTC CTG GAG ACG TAC TGT GCT ACC CCC GCC AAG TCC GAG AGG GAC GTG TCG ACC CCT CCG ACC GTG CTT CCG GAC AAC TTC CCC AGA TAC CCC GTG GGC AAG TTC TTC CAA TAT GAC ACC TGG AAG CAG TCC ACC CAG CGC CTG CGC AGG GGC CTG CCT GCC CTC CTG CGT

GCC CGC CGG GGT CAC GTG CTC GCC AAG GAG CTC GAG GCG TTC AGG GAG GCC AAA CGT CAC CGT CCC CTG ATT GCT CTA CCC ACC CAA GAC CCC GCC CAC GGG GGC GCC CCC CCA GAG ATG GCC AGC AAT CGG AAG TGA-3'.

42. A method according to claim 23 wherein the polypeptide is IGF-I and the polynucleotide is sequence (a).

43. A method according to claim 23 wherein the polypeptide is IGF-II and the polynucleotide is sequence (b).

These claims should be entirely underlined

44. A vector comprising a nucleic acid sequence selected from the group consisting of the nucleic acid sequences (a), (b), (c) and (d) of claim 1.

45. A vector according to claim 44 wherein said nucleic acid sequence is nucleic acid sequence (a).

46. An expression vector comprising a polynucleotide encoding a polypeptide comprising an amino acid sequence of Fig. 1 or Fig. 2, or fragments thereof, wherein said polynucleotide comprises a nucleic acid sequence encoding said amino acid sequence selected from the group consisting of the nucleic acid sequences (a) and (b) of claim 1 and fragments of (a) and (b) that are at least 18 bases in length.